MARYLAND HISTORICAL TRUST NR-ELIGIBILITY REVIEW FORM

NR	Eligible:	yes	
		no	X

Edmondson

Property Name: Edmonson Avenue Bridge (BC2202)	Inventory Number: B-4548						
Address: Gywnns Falls	City: Baltimore	Zip Code: 21223					
County: Baltimore City USGS Topographic Map: Baltimore West, MD							
Owner: Baltimore City							
Tax Parcel Number: N/A Tax Map Number:	N/A Tax Account ID Number: N/A						
Project: Proposed Phase 2 Gywnns Falls Pathwa	y Agency: Maryland State H	lighway Administration					
Site visit by MHT Staff: X no yes	Name:	Date:					
Eligibility recommended	Eligibility not recommende	d_X_					
Criteria:ABCD	Considerations:ABC	DEFG <u>X</u> None					
Is the property located within a historic district?	X noyes Name of district:						
Is district listed?noyes Determined	eligible?noyes District l	Inventory Number:					
Documentation on the property/district is presented	d in: P.A.C. Spero & Company and Louis Historic Highway Bridges in Maryla						
	Report. Maryland State Highway A Department of Transportation, Balti	dministration, Maryland State					
Description of Property and Eligibility Determinate							
The Edmonson Avenue reinforced concrete bridge 541'-8"; length between the abutments 360'-0"; two Gwynns Falls, one 139.0' arch with a 43'-6" rise ov semi-circular arch of 60' span at the west end. The over Gwynns Falls and the CSX railroad.	60.0' semi-circular arches at the east end er the CSX Railroad (formerly the Weste	t; the westerly one spanning arn Maryland Railroad); and one					
The new bridge replaced the Old Edmonson Street become unsafe. In 1906, one of the piers of trolley deterioration. The wood on the top was rotten and in size than the newer Edmonson Street Bridge.	-bridge cracked six inches or more. Muc	h of the ironwork was in a state of					
The bridge was widened beginning in 1969, with a was removed and replaced with an aluminum railir longest structure of its kind in the southern region pilasters, cornices and belt courses.	g. At the time of its construction, the Ed	monson Street Bridge was the					
MARYLAND HISTORICAL TRUST REVIEW							
Eligibility recommended Criteria:ABCD	Eligibility not recommended Considerations:ABC_	D_E_F_G_None					
Comments:							
Hm/hhan lava	05/	02/01					
Reviewer, Office of Preservation Servi	ces 5/14/n1	Date					
Reviewer, NR program		Date					

MARYLAND HISTORICAL TRUST NR-ELIBILITY REVIEW FORM

Continuation Sheet No. 1

8-4548

The Edmonson Avenue Bridge is located in the southwestern area of Baltimore at the junction of Edmonson Road and Gwynns Falls. The bridge is flanked by Hilton Parkway to the west and Ellicott Drive to the east, a largely residential area with light commercial use.

The bridge is named after Dr. Thomas Edmonson who was the City of Baltimore's first major art collector. In 1876, the city honored him by changing the name of the long-established Thompson Road to Edmonson Avenue. Proposed by and designed under the direction of the City Engineer in consultation with William J. Douglas, the bridge was erected between March 1908 and July 1910 by the Baltimore Ferro Concrete Company at a cost of \$208,700. C.M. Siquot was the engineer in charge of the contracting company and J. Doyle represented the city.

The Edmonson Avenue Bridge underwent changes since its original construction that have removed historic fabric, materials, and design. Due to major alterations in the appearance of the bridge related to its widening, the Edmonson Avenue Bridge is not eligible for listing on the National Register of Historic Places.

The Edmonson Avenue Bridge is not eligible for listing on the National Register under Criterion A because it does not retain enough historic fabric or reflect enough of the original design to demonstrate an association with transportation developments occurring at the time of its construction.

The Edmonson Avenue Bridge is not eligible for listing on the National Register under Criterion B because it is not associated with the productive years of a person of importance o the local, state, or national level.

The Edmonson Avenue Bridge is not eligible for listing on the National Register under Criterion C because it is not a unique example of 20th century bridge construction and does, nor does it retain enough historic fabric to demonstrate early 20th century concrete-type construction bridge-building.

The Edmonson Avenue Bridge environs are unlikely to yield new information in terms of archaeological study of the area, and is therefore, not eligible for listing on the National Register under Criterion D.

Prepared by:

Ward Bucher, Lisa Johnson, Megan Shilling

Date Prepared: March 2001

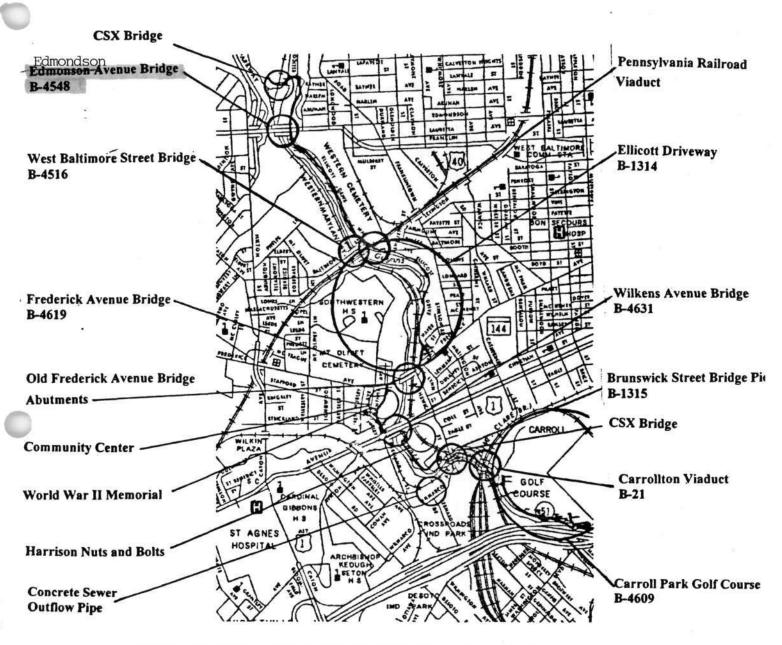


Figure 1. Map Showing Gwynns Falls Area including the Proposed Phase 2 Pathway.



MIHP#: B-4548 EDMONSON AVENUE BRIDGE BATIMORE CITY, MD WARD BUGHER MARCH 2000 VIEW TAKEN LOOKING NORTH AT EDMINSON HENVE BELDGE #1 OF 1

Maryland Historical Trust

Maryland Inventory of Historic Properties number: 78-4548

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Eligibility Recomm	ended_		-		Eligib	ility N	ot Red	comm	ended	_X	
Criteria:A	_B _	C _	D Considerations: _	_A _	B _	_c_	_D_	_E_	_F_	_G_	_None
Comments:											

Chy.

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

MHT No. B-4548

SHA Bridge No. BC 2202 Bridge name US 40 (Edmondson Avenue) over Gwynns Falls and CSXRF
LOCATION: Street/Road name and number [facility carried] US 40 (Edmonsdon Avenue)
City/town Baltimore Vicinity
County Baltimore
This bridge projects over: Road Railway_X WaterX Land
Ownership: State County Municipal _X Other
HISTORIC STATUS: Is the bridge located within a designated historic district? Yes NoX National Register-listed district National Register-determined-eligible district Locally-designated district Other
Name of district
BRIDGE TYPE: Timber Bridge: Beam Bridge: Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge
Metal Truss Bridge
Movable Bridge: Swing Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder X : Rolled Girder X : Rolled Girder Concrete Encased Plate Girder Plate Girder Concrete Encased
Metal Suspension
Metal Arch
Metal Cantilever
Concrete X: Concrete Arch X Concrete Slab Concrete Beam Rigid Frame Other Type Name

DESCRIPTION: Setting: Urban	X	Small town	Rural	
Describe Setting:				

Bridge BC 2202 carries Edmondson Avenue (US 40) over Gwynns Falls and CSX Railroad in Baltimore City. Edmondson Avenue (US 40) runs east-west and the Gwynns Falls and CSX Railroad extend north-south. The bridge is located in the City of Baltimore.

Describe Superstructure and Substructure:

Bridge BC 2202 is a 4-span, 6-lane, closed concrete arch bridge. The bridge was originally built in 1909, and was widened with the addition of two steel girders on each side of the arches in 1970. The structure is 120.7 meters (396 feet) long and has a clear roadway width of 22 meters (72 feet); there are sidewalks on both the north and south sides of the bridge each measuring 1.5 meters (5 feet) wide. The out-to-out width is 26.8 meters (88 feet). The superstructure consists of four arches which support a concrete deck and concrete parapet. The arches span 26 meters (85 feet), 44.7 meters (146.5 feet), 27.4 meters (89.75 feet) and 22.3 meters (73.25 feet) with a clear height of 13.4 meters (44 feet) above the CSX Railroad line. The concrete deck has a bituminous wearing surface. The structure has solid concrete parapets topped with a metal handrail. The substructure consists of two concrete abutments and three concrete piers. There are four concrete wingwalls. The bridge is posted at 31.7 tonnes (35 tons) for HS vehicles and 24.5 tonnes (27 tons) for MD Type 3 vehicles. The bridge has a sufficiency rating of 84.1.

According to the 1995 inspection report, this structure was in satisfactory condition with cracking and spalling. The asphalt wearing surface has minor random cracking, while the underside of the deck has minor isolated spalls. The curbs and sidewalks contain minor cracks and spalls randomly located throughout. The steel girders of the superstructure have light surface rust and peeling paint. The lower web areas of all steel girders on the south side of the arch are heavily rusted at the abutment bearings with significant section loss. The spandrel walls of the concrete arches typically have cracks with minor efflorescence. The arch floorbeams typically contain longitudinal open fractures and areas of delamination on their bottom surface over the two exterior bays. The abutments are in good condition with minor spalls, cracks and light efflorescence. The west abutment backwall is spalled and delaminated over most of its surface. The northeast, southeast and southwest wingwalls are cracked vertically for the entire height.

Discuss Major Alterations:

According to the 1995 Bridge Inspection Report, the bridge was widened in 1970 by two steel girders on each side of the arch. Also, the entire surface of the arch has been patched.

HI	ST	O'	R	Y:

WHEN was the bridge built: 1909, 1970	
This date is: Actual X	Estimated
Source of date: Plaque X Design plans	City/County bridge files/inspection form X
Other (specify):	

WHY was the bridge built?

The bridge was constructed in response to the need for more efficient transportation network and increased load capacity.

WHO was the designer?

City of Baltimore

WHO was the builder?

The Baltimore Ferro Concrete Company

WHY was the bridge altered?

The bridge was widened to allow more traffic across the bridge.

Was this bridge built as part of an organized bridge-building campaign?

Unknown

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have	National Register significance for its association wit	h:
A - Events	B- Person	
C- Engineering	architectural character	

The bridge does not have National Register significance due the widening of the bridge in 1970 with steel girders, and the replacement of the parapets.

Was the bridge constructed in response to significant events in Maryland or local history?

The advent of modern concrete technology fostered a renaissance of arch bridge construction in the United States. Reinforced concrete allowed the arch bridge to be constructed with much more ease than ever before and maintained the load-bearing capabilities of the form. As the structural advantages of reinforced concrete became apparent, the heavy, filled barrel of the arch was lightened into ribs. Spandrel walls were opened, to give a lighter appearance and to decrease dead load. This enabled the concrete arch to become flatter and multi-centered, with longer spans possible. Designers were no longer limited to the semicircular or segmental arch form of the stone arch bridge. The versatility of reinforced concrete permitted development of a variety of economical bridges for use on roads crossing small streams and rivers.

Maryland's roads and bridge improvement programs mirrored economic cycles. The first road improvement of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920-1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the

secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund (with an equal sum from the counties) the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had been inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930's.

As the nation's automotive traffic increased in the early twentieth century, local road networks were consolidated, and state highway departments were formed to supervise the construction and improvement of state roads. With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction through the standardization of bridge designs.

The concept and practice of standardization was one of the most important developments in engineering of the twentieth century. In Maryland, as in the rest of the nation, the standardized concrete types became the predominant bridge types built. In the period 1911 to 1920 (the decade in which standardized plans were introduced), beams and slabs constituted 65 percent and arches 35 percent of the extant 29 bridges built in Maryland during this period. In the following decade, 1921-1930, the beam (now the T-beam) and slab increased to 73 percent and the arch had declined to 27 percent of the 129 extant bridges; in the next decade (1931-1940), the beam and slab achieved 82 percent and arches had further declined, constituting only 18 percent of the total of extant bridges built on state-owned roads between 1931 and 1946.

Although beam and slab bridges became the utilitarian choice, it appears that the arch was selected when aesthetic as well as other site conditions were considered. The architectural treatment of extant arch bridges supports this assessment. Many of these bridges were multiple span structures with open spandrels or masonry facing. Another decorative feature of the concrete arch bridge was an open, balustrade-style parapet. Despite the popularity of ornamental arches and the increase in use of beam and slab bridges, examples of simpler, single and multiple span closed concrete arch bridges with solid parapets continued to be constructed throughout the early twentieth century.

The route of U.S. 40 leading west from the city of Baltimore first developed as a wagon trail to the city of Frederick, established in 1745. The trail later became part of the Baltimore and Frederick Town Turnpike Road, completed in 1808, which was part of a series of turnpikes connecting Baltimore to the beginning of the National Road in Cumberland. The modern section of U.S. 40 extending west from Edmondson Avenue in Baltimore was constructed as a dual highway in 1935 to bypass the old route through Catonsville and Ellicott City.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

There is no evidence that the construction of this bridge had a significant impact on the growth and development of this area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

Unknown

Is the bridge a significant example of its type?

A significant example of a concrete arch bridge should possess character-defining elements of its type, and be readily recognizable as an historic structure from the perspective of the traveler. The integrity of distinctive features visible from the roadway approach, including parapet walls or railings, is important in structures which are common examples of their type. In addition, the structure must be in excellent condition. This bridge, which was widened with steel beams in 1970 and had its parapets replaced, is an undistinguished example of a concrete arch bridge.

Does the bridge retain integrity of important elements described in Context Addendum?

This bridge was widened in 1970, resulting in the loss of such character-defining elements as the parapets and portions of the spandrel walls.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?

This bridge is not a significant example of the work of a manufacturer, designer, and/or engineer.

Should the bridge be given further study before an evaluation of its significance is made?

No further study of this bridge is required to evaluate its significance.

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Other (list):		
Johnson, Arthur Newhall		

1899 The Present Condition of Maryland Highways. In *Report on the Highways of Maryland*. Maryland Geological Survey, The Johns Hopkins University Press, Baltimore.

P.A.C. Spero & Company and Louis Berger & Associates

Historic Highway Bridges in Maryland: 1631-1960: Historic Context Report. Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore, Maryland.

State Roads Commission

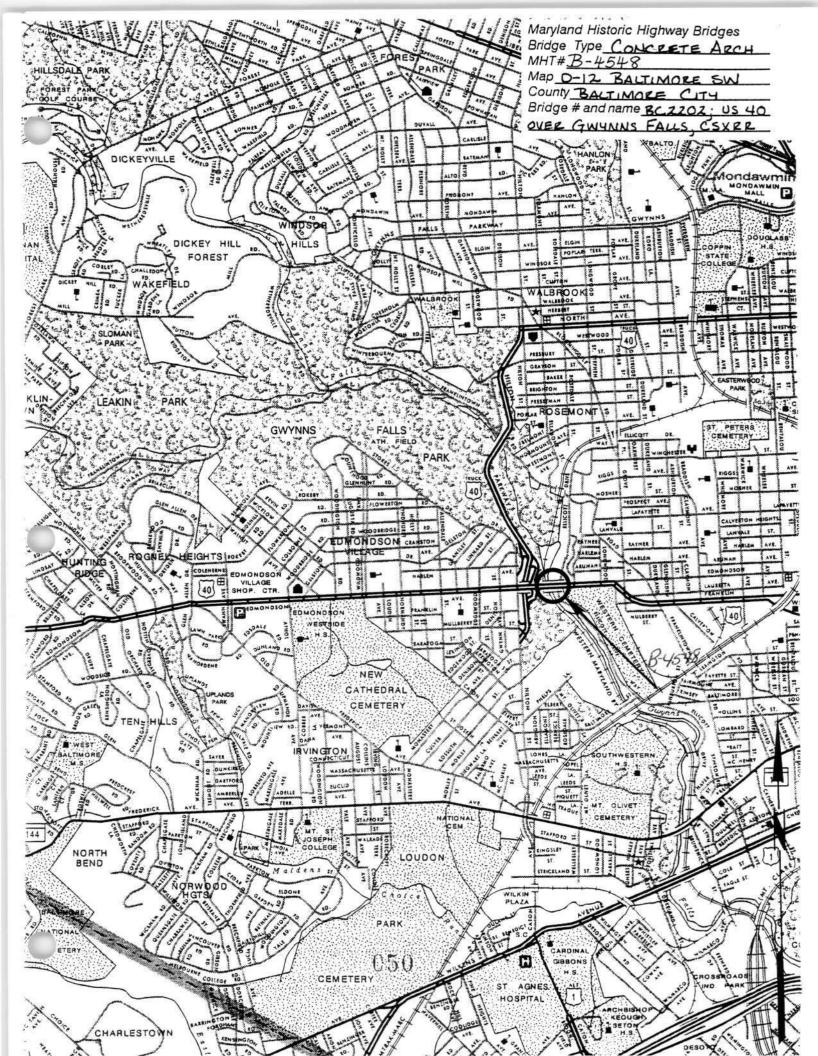
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Tyrrell, H. Grattan

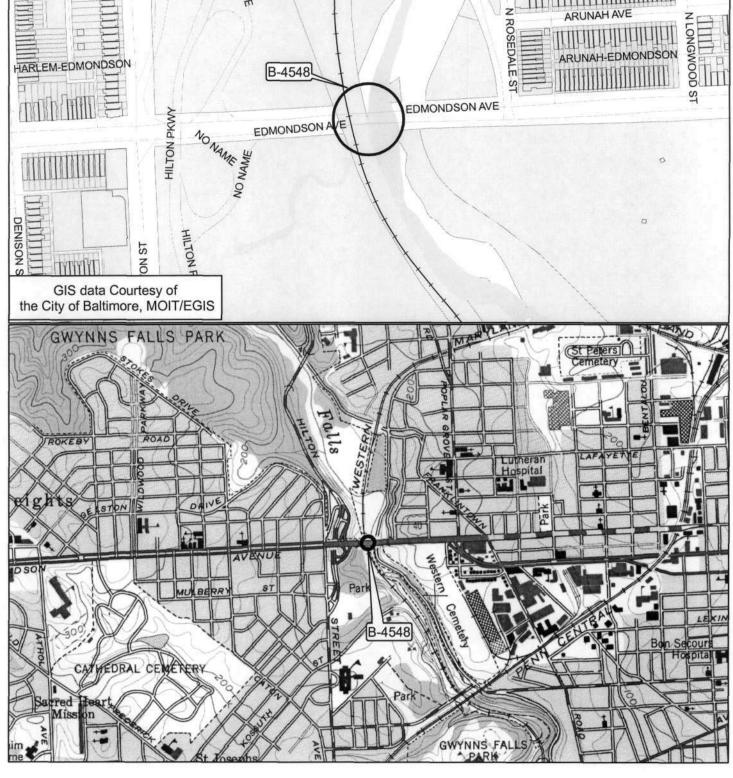
1909 Concrete Bridges and Culverts for Both Railroads and Highways. The Myron C. Clark Publishing Company, Chicago and New York.

SURVEYOR:

Date bridge recordedDecember 1997Name of surveyorWallace, Montgomery & Associates / P.A.C. Spero & CompanyOrganization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Baltimore, MD 21204Phone number(410) 296-1635FAX number (410) 296-1670Revised by P.A.C. Spero & Company, July 1998.



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